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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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		Applica	tion No.	Applicant(s)		
Office Action Summary		10/817	,083	JOB ET AL.		
		Examin	er	Art Unit		
		Michael	Scott Lowe	3652		
- Period fo	- The MAILING DATE of this commu r Reply	nication appears on t	he cover sheet with th	ne correspondence a	ddress	
A SHO WHICI - Extensafter S - If NO - Failure Any re	DRTENED STATUTORY PERIOD F HEVER IS LONGER, FROM THE M sions of time may be available under the provision SIX (6) MONTHS from the mailing date of this com period for reply is specified above, the maximum s to reply within the set or extended period for reply to ply received by the Office later than three months d patent term adjustment. See 37 CFR 1.704(b).	MAILING DATE OF sof 37 CFR 1.136(a). In no munication. tatutory period will apply and will, by statute, cause the a	THIS COMMUNICAT event, however, may a reply b will expire SIX (6) MONTHS application to become ABANDO	ION. be timely filed from the mailing date of this ONED (35 U.S.C. § 133).	·	
Status						
2a)⊠ 3)□	Responsive to communication(s) file This action is FINAL . Since this application is in condition closed in accordance with the pract	2b)⊠ This action is for allowance exce	pt for formal matters,		ne merits is	
Dispositio	on of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicatio	Claim(s) 1-20 is/are pending in the la) Of the above claim(s) is/a Claim(s) is/a Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrion Papers The specification is objected to by the	are withdrawn from o				
	The drawing(s) filed on 10 December Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	ection to the drawing(s g the correction is requ) be held in abeyance. uired if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 C	CFR 1.121(d).	
Priority u	nder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (lation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	PTO-948)	4) Interview Summ Paper No(s)/Ma 5) Notice of Inform 6) Other:			

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10,17,20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suizu (US 4,592,692) in view of Wehde (US 3,529,735).

Re claims 1,17, Suizu teaches an apparatus for handling packages W between a pickup location and a spaced destination location, comprising:

a clamshell gripper means (26,23,24,25,etc.) adapted to be attached to a robotic arm (5,6,7,etc.);

a first means 42 for moving said clamshell gripper means between a clamped position and an unclamped position;

a fork-type loader 22 adapted to be attached to the robotic arm;

a second means 30 for moving said fork-type loader between a pick position (conveyor 50) and an open position; and

control means (not numbered) connected to said first and second means for moving, said control means selectively operating said clamshell gripper means and said fork-type loader in independent and cooperative modes whereby said clamshell gripper means engages opposite sides of a package in said clamped position and said fork-type loader supports a bottom of the package in said pick position.

Application/Control Number: 10/817,083

Page 3

Art Unit: 3652

Suizu does not teach a fork and clamping device wherein the fork supports the bottom of a package from only one side and is the sole means of supporting the bottom of the package. Wehde teaches a fork and clamping device wherein the fork supports the bottom of a package from only one side and is the sole means of supporting the bottom of the package for situations where space or access is restricted. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have tried modifying Suizu by the general teaching of Wehde to have the fork and clamping device wherein the fork supports the bottom of a package from only one side and is the sole means of supporting the bottom of the package for the predictable result of being able to handle situations where space or access is restricted.

Although Suizu is believed to teach the claimed clamping, in order to expedite the case and address applicant's concern the following additional modification is added if it is determined that the claimed clamping (compression force) is not found in Suizu. Wehde teaches clamshell grippers (generally 22,24) clamp and apply a pivotal compression force in order to better lift and/or grip a group of items. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Suizu by Wehde to have Suizu's clamshell gripper means clamp and apply a pivotal compression force in order to better lift and/or grip a group of items.

Re claim 2, Suizu teaches an overhead base unit adapted to be attached to the robotic arm, said clamshell gripper means (26,etc.) and said fork-type loader 22 being mounted on said overhead base unit.

Page 4

Re claims 3,4, Suizu teaches (see figures 5-6) said clamshell gripper means further comprises a first/second side support mechanical linkage (not numbered) coupled to a first/second side support plate, said first/second side support mechanical linkage (not numbered) being pivoted about a first/second pivoting member, said first/second side support plate being adapted to engage one of the opposite sides of the package.

Re claims 5,20, Suizu teaches said first side support mechanical linkage and said second side support mechanical linkage are mounted to transition between said unclamped position and said clamped position in an arc-like motion.

Re claim 6, Suizu teaches a base unit (not numbered, see figures 5-6), said first and second side support linkages being pivotally mounted on said base unit for movement between said unclamped and clamped positions with an arc-like motion.

Re claim 7, Suizu teaches said first means 42 for moving includes a pair of pneumatic cylinders each connected to an associated one of said first and second side support linkages, said cylinders being connected to said control means for actuation.

Re claim 8, Suizu teaches (see figures 5-6) said fork-type loader 22 includes at least one arm being pivotally mounted and having one end connected to said second means for moving and an opposite end, and a fork-type support member (32,etc.) attached to said at least one arm opposite end for engaging and supporting the bottom of the package W.

Re claim 9, Suizu teaches said fork-type loader 22 being pivotally mounted on said base unit for movement between said pick and open positions with an arc-like motion.

Re claim 10, Suizu teaches said second means 30 for moving includes a pneumatic cylinder connected to said fork-type loader, said cylinder being connected to said control means for actuation.

Claims 11-13,19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suizu (US 4,592,692) in view of Wehde (US 3,529,735)and further in view of Dwyer (US 4,256,429).

Re claims 11,19, Suizu is silent regarding a movable upper support pad. Dwyer teaches an upper support pad 112 (and third movement means 116) moveable between an engaged position for engaging an upper surface of the package and a disengaged position in order to aid package alignment. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Suizu by Dwyer to have an upper support pad moveable between an engaged position for engaging an upper surface of the package and a disengaged position in order to aid package alignment.

Re claim 12, Suizu as already modified by Dwyer teaches said upper support pad is positioned above said fork-type loader when said fork-type loader is in said pick position.

Re claim 13, Suizu as already modified by Dwyer teaches a pneumatic cylinder attached to said upper support pad, said cylinder being connected to said control means for actuation.

Page 6

Claims 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suizu (US 4,592,692) in view of Wehde (US 3,529,735) and further in view of Borcea (US 4,741,568).

Re claim 14, Suizu is silent regarding selectively limiting at least one of said unclamped position and said open position to less than a full travel. Borcea teaches (columns 1-2) soft stop means and a hard stop means connected to said control means for selectively limiting at least one of said unclamped position and said open position to less than a full travel in order to avoid interference. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Suizu by Borcea to have soft stop means and/or a hard stop means connected to said control means for selectively limiting at least one of said unclamped position and said open position to less than a full travel in order to avoid interference.

Re claim 15, Suizu as already modified by Borcea teaches said soft stop means controls at least one of said first and second means for moving.

Re claim 16, Suizu as already modified by Borcea teaches said hard stop means includes a stop (Borcea 17,42,etc.) for engaging one of said clamshell gripper means and said fork-type loader and a stop actuator (Borcea 17,42,etc.) connected to said control means for selectively moving said stop.

Application/Control Number: 10/817,083 Page 7

Art Unit: 3652

Claims 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Suizu (US 4,592,692) in view of Wehde (US 3,529,735) and further in view of Borcea (US 4,741,568).

Re claim 18 Suizu is silent regarding selectively limiting at least one of said unclamped position and said open position to less than a full travel. Borcea teaches (columns 1-2) soft stop means and a hard stop means connected to said control means for selectively limiting at least one of said unclamped position and said open position to less than a full travel in order to avoid interference. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Suizu by Borcea to have soft stop means and/or a hard stop means connected to said control means for selectively limiting at least one of said unclamped position and said open position to less than a full travel in order to avoid interference.

Conclusion

Applicant's arguments with respect to the clamping/compression force limitations have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Application/Control Number: 10/817,083 Page 8

Art Unit: 3652

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Scott Lowe whose telephone number is (571)272-6929. The examiner can normally be reached on 6:30am-4:30pm M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saul Rodriguez can be reached on (571)272-7097. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/817,083 Page 9

Art Unit: 3652

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michael Scott Lowe/ Examiner, Art Unit 3652